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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,270	07/21/2003	Ji-Young Kim	4591-332	7485
75	90 07/08/2004		EXAM	INER
MARGER JOHNSON & McCOLLOM, P.C.			LE, THAO P	
1030 S.W. Morr Portland, OR			ART UNIT	PAPER NUMBER
Torraira, Orc	77200		2818	
			DATE MAILED: 07/08/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/624,270	KIM ET AL.	Ø				
Office Action Summary	Examiner	Art Unit					
	Thao P. Le	2818					
The MAILING DATE of this communication a Period for Reply	The MAILING DATE of this communication appears on the cover she t with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a r  - If NO period for reply is specified above, the maximum statutory peri  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be reply within the statutory minimum of thirty (30) dod will apply and will expire SIX (6) MONTHS fro tute, cause the application to become ABANDON	timely filed  ays will be considered timely  m the mailing date of this co  IED (35 U.S.C. § 133).	y. ommunication.				
Status							
1) Responsive to communication(s) filed on 7/3	21/03.						
<u> </u>	his action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
<ul> <li>4)  Claim(s) 1-44 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) 1-44 are subject to restriction and/or election requirement.</li> </ul>							
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)	<b></b>						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	4) 🔲 Interview Summa Paper No(s)/Mail						
Notice of Draitsperson's Faterit Drawing Review (F10-940)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date		Patent Application (PTC	D-152)				

## **DETAILED ACTION**

## Election/Restrictions

Claims 1-44 are pending in this application.

1. Restriction to one of the following inventions is required under 35 U.S.C.

121:

Group I. Claims 30-43, drawn to a semiconductor device, classified in

class 257, subclass 261.

Group II. Claims 1-29, 44, drawn to process of making a semiconductor

device, classified in class 438, and subclass 243.

2. The inventions are distinct, each from the other because of the following

reasons:

Inventions II and I are related as process of making and product made.

The inventions are distinct if either or both of following can be shown: (1) that the

process as claimed can be use to make other and materially different product or

by hand, or (2) that process as claimed can be made by another and materially

different process. (MPEP § 806.05(f)). In the instance case unpatentabilities of

the group I invention would not necessarily imply unpatentability of the group II

invention, since the device of the group I invention could be made by the

processes materially different from those of the group II invention, for example,

Group I invention discloses limitation that is not disclosed in group II invention:

the opening in group I invention has rectangular shape. In addition, the device in

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group I invention can be formed with different method than group II invention, the gap region can be formed and filled with insulating material without patterning step and the trench mask pattern can be removed before (or after) filling the trench opening.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, the fields of search are not co-extensive. Therefore, separate examination would be required and restriction for examination purposes as indicated is proper.
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao P. Le whose telephone number is 571-272-1785. The examiner can normally be reached on M-T (7-6).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thao P. Le

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